

1 Claim 22 is amended as indicated below.

2 Claims 1-31 remain in the application and are listed as follows:

3
4 **1. (Original)** A system for managing changes in state of a
5 navigation-based application, comprising:

6 a journal engine for maintaining a journal, the journal being associated with
7 a container that navigates to and hosts a resource, the resource including a
8 mechanism for causing to be stored in the journal a journal entry that includes
9 information about a change in state of the resource, the journal entry being
10 operative to restore the resource to the state prior to the change.

11
12 **2. (Original)** The system recited in claim 1, wherein the change in
13 state of the resource is initiated by input from a user interacting with the resource.

14
15 **3. (Original)** The system recited in claim 1, wherein the resource is
16 associated with a navigation-based application.

17
18 **4. (Original)** The system recited in claim 2, wherein the navigation-
19 based application comprises a plurality of resources and includes a mechanism for
20 navigating among each of the plurality of resources.

21
22 **5. (Original)** The system recited in claim 3, wherein the navigation-
23 based application is browser-hosted.

1 6. **(Original)** The system recited in claim 3, wherein the navigation-
2 based application is stand-alone.

3
4 7. **(Original)** The system recited in claim 1, wherein the journal
5 entry includes a method that is configured to restore the resource to the state prior
6 to the change.

7
8 8. **(Original)** The system recited in claim 7, wherein the method is
9 further configured to create a second journal entry operative to restore the resource
10 to its state subsequent to the change.

11
12 9. **(Original)** The system recited in claim 1, wherein the resource
13 further includes a mechanism for altering the state of the resource.

14
15 10. **(Original)** A computer-readable medium having computer
16 executable components for managing changes in state of a navigation-based
17 application, comprising:

18 a resource including a mechanism for altering a state of the resource from a
19 first state to a second state; and

20 a description of a journal entry having a method for restoring the resource
21 from the first state to the second state, the method being further configured to
22 create a second journal entry to undo the restoration of the resource from the first
23 state to the second state.

1 **11. (Original)** The computer-readable medium of claim 10, wherein
2 the resource is further configured to cause the journal entry to be added to a
3 journal that includes information about navigations among a plurality of resources.
4

5 **12. (Original)** The computer-readable medium of claim 10, wherein
6 the resource is a component of the navigation-based application.
7

8 **13. (Original)** The computer-readable medium of claim 10, wherein
9 the navigation-based application includes a plurality of resources that are
10 hyperlinked together.
11

12 **14. (Original)** A computer-readable medium encoded with a data
13 structure, the data structure comprising:

14 a journal entry having a Replay method, the Replay method being
15 configured to restore a resource from a first state to a second state, the Replay
16 method being further configured to create a second journal entry to restore the
17 resource from the second state to the first state.
18

19 **15. (Original)** The computer-readable medium of claim 14, wherein
20 the resource comprises a component of a navigation-based application.
21

22 **16. (Original)** The computer-readable medium of claim 14, wherein
23 the journal entry is configured to be added to a journal that includes information
24 about navigations between resources of a navigation-based application.
25

1 **17. (Original)** The computer-readable medium of claim 16, wherein
2 the journal is associated with a window of the navigation-based application.

3
4 **18. (Original)** The computer-readable medium of claim 16, wherein
5 the journal is associated with a session.

6
7 **19. (Original)** The computer-readable medium of claim 18, wherein
8 the session comprises a browser session.

9
10 **20. (Original)** The computer-readable medium of claim 18, wherein
11 the session comprises a lifetime of the navigation-based application.

12
13 **21. (Original)** A software architecture for managing changes in state
14 of a navigation-based application, comprising:

15 an internal system that supports the maintenance of entries in a journal, the
16 journal being operative to maintain state information related to navigations among
17 resources in a navigation-based application; and

18 a set of interfaces that support the inclusion of entries in the journal, the
19 journal entries being related to non-navigation activity.

20
21 **22. (Currently Amended)** The software architecture recited in
22 claim 21, wherein the set of interfaces includes an AddEntry method for adding a
23 journal entry to the journal.

1 **23. (Original)** The software architecture recited in claim 21, wherein
2 the set of interfaces includes a RemoveEntry method for removing a journal entry
3 from the journal.
4

5 **24. (Original)** The software architecture recited in claim 23, wherein
6 the RemoveEntry method is further configured to remove a journal entry from a
7 Back stack portion of the journal.
8

9 **25. (Original)** The software architecture recited in claim 21, wherein
10 the set of interfaces is provided by a base class having a Name property that
11 identifies a name of the journal entry in the journal.
12

13 **26. (Original)** The software architecture recited in claim 21, wherein
14 the set of interfaces is provided by a base class having a Replay method
15 configured to restore a resource from a first state to a second state.
16

17 **27. (Original)** The software architecture recited in claim 26, wherein
18 the Replay method is further configured to create and return a second journal entry
19 for inclusion in the journal.
20

21 **28. (Original)** The software architecture recited in claim 27, wherein
22 the second journal entry is configured to restore the resource from the second state
23 to the first state.
24
25

1 **29. (Original)** A computer-readable medium encoded with computer-
2 executable instructions, comprising:

3 receiving a notification to add a journal entry to a journal, the journal entry
4 being associated with a resource, the journal entry including sufficient information
5 to restore the resource from a first state to a second state, the first state being
6 associated with a first set of characteristics of the resource, the second state being
7 associated with a second set of characteristics of the resource; and

8 adding the journal entry to the journal.

9
10 **30. (Original)** The computer-readable medium of claim 29, wherein
11 the journal entry further comprises a mechanism for restoring the resource from
12 the second state to the first state.

13
14 **31. (Original)** The computer-readable medium of claim 30, wherein
15 the mechanism is configured to create a second journal entry having sufficient
16 information to restore the resource from the second state to the first state.